# A CATALOGUE OF THE PLANTS GROWING IN THE VICINITY OF SAN FRANCISCO

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A Catalogue of the Plants Growing in the Vicinity of San Francisco by Henry N. Bolander

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# HENRY N. BOLANDER

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# A CATALOGUE

(1)

## THE PLANTS

GROWING

# IN THE VICINITY OF SAN FRANCISCO.

BY

## HENRY N. BOLANDER,

(Late State Botanist.)

SAN FRANCISCO:

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1870.

### A CATALOGUE

OF THE

# PLANTS GROWING IN THE VICINITY OF SAN FRANCISCO.

By H. N. BOLANDER, late State Botanist.

This catalogue contains the names of very nearly all the phaenogamous and cryptogamous plants found about a hundred niles north and south of San Francisco, and as far east as Mount Diablo. Some plants were omitted (especially the shrubly oaks) since it was impossible to determine their proper specific names. The two important families, the Fungi and Algæ have been entirely omitted; no one as far as I know, has made them a subject of investigation and study on this coast. The ferns, mosses, liverworts and lichens were studied by the very best authorities in America.

I take great pleasure in stating that our resident botanists, Dr. A. Kellogg and G. H. Bloomer, have largely assisted me in this undertaking, in fact, this catalogue is rather the result of our conjoint labors.

Neither the time of flowering has been mentioned, being so nearly alike for all, nor the underlying rock, since we have also in this respect so great a uniformity. The common metamorphic sandatons underlies nearly the whole region, except a few small patches of limestone and bituminous slate near Pescadero and Monterey. The influence of the underlying rock is apparently of less note, than the mechanical and physical proporties of the subsoil and the distance from the ocean. From the ocean to Mount Diablo, one easily distinguishes three distinct floral regions; the immediate coast, the redwood and the parklands. Every one of these floral regions has its peculiar types and forms. Having no text book on our Flora, this catalogue may be of some service to those who are interested in the study of botany.

Ranunculacese.

LATIN NAMES.					E	GLISH	Nat	MIS.					NATURAL HABITAY,
Clematis, L.,	18	30		2.5	Vi	rgin's	Boy	vor.					
C. lasiantha, Nutt.,					*	20	490	12	353	20	Dec:	22.	River banks
C. ligusticifolia, Ben	th.,												
Anemous, L., .	*	50	1000	12	W	indflo	wer.						
A. nemorosa, L., var		100		25	đ.	*:	10.0			*0	12	25	Redwood
Thalietrum, Tourn.,		til	100	0	Me	adow	-Rue						
Th. Fendleri, Englis	ñ.,		1000		150	10	115	15	20	100		0.00	Mendows
Th. dioieum, L.,													
Rammoulus, L., .	(5)	70	204	42	Bu	tterer	23)						
R. aquatilis, L., .	0				25000		51	825	0.00		60	10.	Ponds
R. Californious, Ben	th.	20	1140			20	100.0	200 200	-		5.85	- CC	Meadows
R. repens, L., .	0.00	200	60	22		36	93	08	(*)		1063	996	44
R. hebecarpus, Hool	de.	Arn.,	100	10	25	85	65	53	*	***		37	Around Shrubs
R. muricatus, L.,				0.0			3.88	100	*	*:	5.00	36	Streets of S. F.
R. aeris, L., .		*	100			201			.00	65	2.		Meadows
R. reptans, L., .		23	100	105	182	*0			100	#1			W.
Myosurus, Dill., .	2.5			22	M	ouse-T							
M. minimus, L., .	100		No.	-	100000	411	000000	-05		0.00	325	90	Sandy Places
Anudania Toman	100		80	1080		lumb							654554 N. C.
A. Californica, Gray		- 100	8	150	OU.	energener Eli	**************************************	23	20	40	88	(9)	Meadows and Hedges

LATIN NAMES.					E	NGLISI	I NA	aus.					NATURAL HABITAT
Delphinium, Tourn., .				c on	La	rkspu	r.						
D. Californieum, Torr	and	Gr	ıv.	1.0	*********					const.			Meadows
D. Menziesii, D. C.,			100		200					0.00	2.0		Hillsides
D. patens, Benth., .		(E)		100					•	0.000	100	•	44
D. simplex, Dougl.,			***	0.00		81	200.0		22	3353	98	- 60	44
D. varigatum, Torr &				250	- 00		10401	375	-00	1000	22	001	Hillsides
D. decorum, Fisch. &	Mov	2.7		83 800	(3)	56	38.0	900		33.00		95	Plains
D. nudicaule, Torr. &	Gray	.,	•	35.0	Ve	llow	Lark	T11111	20	858	2.2	0.51	Gravelly Places
Actaa, L.,				•		neber		1	•	2.5	*	•	Chartery Lances
A. spicata, L., var arg	uta.,	35	52		*			74		2000		160	Redwoods
					100								
							erida	cea					
Berberis, L.,			*8			rberr							TT:11 + 2
B. aquifolium, Pursh., B. pinnata, Lag., Vancouveria, Done.,						1940	•	•	100	W		20	Hillsides
V. bexandra, Morr & . Achlys, D. C.,	Dee.	•	40	20	14		10	84	×	83	14	12	Redwoods
A. triphylla, Hook.,		SE.	23		1/2	4	20	1	**			0	Redwoods
			2	(vm	ohae	ace	29.	(Wate	r Lily	Fam.	)		
Brasenia, Schrebr., .		٠					Shield						
B. peltata, Pursh		600 400	0.0	7.00	2000	entrario en	22	140	4.7				Clear Lake
Nupher, Smith.,		100	10000	105		nd L							
N. advena., Ait.,		10	0.0	2320			Pond	THE					Ponds
21. acriting 2009			57	D <sub>2</sub>						irm.)	18	**	1 Onus
Lichscholizia, Cluum.		•	57		pave	егас	eæ.	(Pop.		am.)	18		
Eschscholizia, Chum. E. Californica, Cham.,			57		pave	егас		(Pop.	py F	am.)			Meadows
Eschscholizia, Clum. E. Californica, Cham., E. caspitosa, Lindl.			60		pave	егас	eæ.	(Pop.		am.)	* * *		
Eschscholizia, Cham. E. Californica, Cham., E. cuspitosa, Lindl Dendromecon, Benth.,		30 30 31	57 68 7253		pave	егас	eæ.	(Pop.	py F	am.)	*		Meadows
Eachscholizia, Cham. E. Californica, Cham., E. caspitosa, Lindl. Dendromecon, Benth, D. rigidum, Benth. Meconopsis, Vig.		5	)/80) (9		pave	егас	eæ.	(Pop.	py F	iam.)	# # # ;		
Ekchscholizia, Climm. E. Californica, Cham., E. cesspitosa, Lindl. Dendromecon, Benth., D. rigidum, Benth. Meconomis, Vig. M. heterophylla, Bentl		5	)/80) (9		pave	егас	eæ.	(Pop.	py F	iam.)			Meadows
Eschscholizia, Chum. E. Californica, Cham., E. cuspitosa, Lindl. Dendromecon, Benth., D. rigidum, Benth., Meconopuis, Vig. M. hoterophylla, Bentl Platystemon, Benth.	ì		(20) (20) (4)	3 3	pave	егас	eæ.	(Pop.	py F	iam.)			Meadows  Dry Hillsides
Eachscholizia, Chum. E. Californica, Cham., E. cesspitosa, Lindl. Dendromecon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl Platystemon, Benth., P. Californicum, Bent	ì		(20) (20) (4)	3 3	pave	егас	eæ.	(Pop.	py F	kems)			Meadows  Dry Hillsides Thickets
Lichscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl., Platystemon, Benth., P. Californicum, Bent. Platystyma, Benth.,	ı. h.,	50 80	780 8 8	3 3 5	pave	егас	eæ.	(Pop.	py F	(am.)			Meadows  Dry Hillsides  Thickets  Sandy Soil
Exchscholizia, Chum. E. Californica, Cham., E. cesspitosa, Lindl. Dendromecon, Benth., D. rigidum, Benth., Meconopsis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Bent. Platystyma, Benth., P. lineare, Benth.	i. h.,		780 8 8		pave	егас	eæ.	(Pop.		iam.)			Meadows  Dry Hillsides Thickets
Lichscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl., Platystemon, Benth., P. Californicum, Bent. Platystyma, Benth.,	i. h.,		780 8 8		Ca	erac	eæ.	(Pop.	py F				Meadows  Dry Hillsides  Thickets  Sandy Soil  Sandy Soil
Eschscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeom, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Benth., P. Inearc, Benth., P. linearc, Benth., P. Californicum Torr,	n. h., (Me		780 8 8		Ca'	erac	eas.	(Pop.	rpy F				Meadows  Dry Hillsides  Thickets  Sandy Soil  Sandy Soil
Eschscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeom, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Benth., P. Inearc, Benth., P. linearc, Benth., P. Californicum Torr,	n. h., (Me		780 8 8		Ca'	erac	eæ.	(Pop.	rpy F				Meadows  Dry Hillsides  Thickets  Sandy Soil  Sandy Soil  Mission Hills
Linchscholizia, Chim. E. Californica, Cham., E. Casipitosa, Lindl. Dendromeom, Benth., D. rigidam, Benth. Meconopula, Vig. M. heterophylla, Benth. Platystemon, Benth., P. Californicum, Benth., P. Iinearc, Benth., P. Cinchelle, P. Californicum, Torr, Dicentra, Bork., D. formosa, D. C.,	n. h., (Me		780 8 8		Ca	erac	eas.	(Pop.	nitory				Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places
Eschscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeom, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Benth., P. Inearc, Benth., P. linearc, Benth., P. Californicum Torr,	n. h., (Me		780 8 8		Ca'	erac	eas.	(Pop.	rpy F				Meadows  Dry Hillsides  Thickets  Sandy Soil  Sandy Soil  Mission Hills
Exchscholizia, Chum. E. Californica, Cham., E. cesspitosa, Lindl. Dendromeom, Benth., D. rigidaun, Benth. Meconopula, Vig. M. heterophylla, Benth. Platystemon, Benth., P. Californicum, Benth., P. Californicum, Benth., P. Californicum, Torr, Dicentra, Bork., D. formosa, D. C., D. chrysantha, Hook.,	n. h., (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca'	erac	eas.	(Por	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places
L'achscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromecon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Benth. Platystemon, Benth., P. Californicum, Benth, P. Californicum, Benth, P. Californicum Torr, Dicentra, Bork., D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br.,	n., (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca'	erac	ese.	(Por	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places Dry Hillsides
Exchscholizia, Chum. F. Californica, Cham., F. cuspitosa, Lindl. Dendomecon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Bent. P. Iinearc, Benth., P. Linearc, Benth., P. Californicum Torr, Dicentra, Bork., D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br., Ch. capitatus, Dougl., Ch.	n., (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca	erac	ese.	(Fus	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places
Lischscholizia, Chum. E. Californica, Cham., E. cespitosa, Lindl. Dendromeom, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Benth. Platystemon, Benth., P. Californicum, Benth., P. Californicum, Benth., P. Californicum, Torr, Dicentra, Bork., D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br., Ch. capitatus, Dougl., Mestactima, R. Br.,	n. h., (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca	erac	ese. oppy. osc. (A	(Fus	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places Dry Hillsides  Sandy Soil
Eschscholizia, Chum. E. Californica, Cham., E. Californica, Cham., E. californica, Cham., D. rigidum, Benth. M. Californicanis, Vig. M. heterophylla, Benth. P. Californicum, Bent Platystemon, Benth., P. Californicum Torr, P. Californicum Torr, D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br., Ch. capitatus, Dougl., N. officinale, R. Br., N. officinale, R. Br.,	n.,(Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca	erac	ese. oppy. osc. (A	(Fus	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsides Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places Dry Hillsides  Sandy Soil Springy Places
Exchscholizia, Chum. E. Californica, Cham., E. cuespitosa, Lindl. Dendomecon, Benth., D. rigidum, Benth. Meconopuis, Vig. M. heterophylla, Bentl. Platystemon, Benth., P. Californicum, Bent. Platystyma, Benth., P. Iinearc, Benth., P. Californicum Torr, Dicentra, Bork., D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br., Ch. capitatus, Dougl., Nasturtium, R. Br., N. officinate, R. Br., N. officinate, R. Br., N. officinate, R. Br.,	). (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca Ca 	erace	ese. oppy. osc. ozc. Cress.	(Fu	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsidea Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places Dry Hillsides  Sandy Soil
Eschscholizia, Chum. E. Californica, Cham., E. Californica, Cham., E. californica, Cham., D. rigidum, Benth. M. Californicanis, Vig. M. heterophylla, Benth. P. Californicum, Bent Platystemon, Benth., P. Californicum Torr, P. Californicum Torr, D. formosa, D. C., D. chrysantha, Hook., Cheiranthus, R. Br., Ch. capitatus, Dougl., N. officinale, R. Br., N. officinale, R. Br.,	n. h., (Me		780 8 8	* * * * * * * * * * * * * * * * * * *	Ca Ca 	erace	ese. oppy. osc. (A	(Fu	nitory	· · · · · · · · · · · · · · · · · · ·			Meadows  Dry Hillsidea  Thickets Sandy Soil Sandy Soil Mission Hills  Shady Places Dry Hillsidea  Sandy Soil Springy Places

LATIN NAMES.

NATURAL HABITAT.

LIATIN IN AMES.				E	NGLIS	91 A.	AMES,					IN ATURAL, ILABIT.
Streptanthus., Nutt.,												
H. Breweri, Gray.,	116		90		19			129	(A)		100	Monte del Diablo
H. glandulosus, Hook.,				99							114	Sandy Places
H. hispidus, Gray											500	Monte del Diablo
H. flavescens, Hook., .							100					Hillsides
II. procerus, Brewer.,												Sandy Soil
Thereitie Dill	•	•		The	******	Must	ord.	3.60	*		:	Daniely Doll
Taritis, Dill., T. perfoliata, Lam., (T. g.		T .	* 1	10	M CT -	Man	OIL CL					Meadows
Arabis, L.,	LANGE A	,	•33	D.	1.0			3.0		*11	34	Dicadows
A. blepharophylla, Hook												Mission Hills
									46		18	
A. arcuatus, Nutt.,		10		****			33*	38	*		30	Rocks
Cardamins, L.,		(0)		Bit								
C. angulata, Hook.,		*		336					(*)	*1	33	Moadows
C. oligosperma, Nutt.,	38			$(\bullet)$						- 60	.07	Meadows
C. paucisecta, Beuth.,	3.	8	60	19	100	<b>X</b>		08	(6)		28	Redwoods
C. hirsuta, L. var.,												
Sisymbrium, L., .	39		90	He	dge :	Must	ard.					
S. officinale, Scop., .		8	20	100	7	36	£3:		19	96	40	Fields
S. deflexum, Harvey.,	9	23	23	В	32	3.2	43	93	-	27	5.5	Hillsides
S. pygmacum, Nutt., .	12	9	23	ä.,	2.5	48	18	114	100	2	200	Hillsides
S. canescens, Nutt.,	15	ē.	200	020	112	120	20	152.0		97	40	Hillsides
Erysimum, I.,	102	350	90	Tr	enele	Mus	tard.					
E. asperum, D. C.,	- 100	200	200	000		-0.5					Jessy.	Fields
E. Arkansanum, Nutt.,							*				(1,0)	2,302.00
Brassica, Tourn.												
				117		Must		15				Fields
B. nlba, T.,						Tusta						Picius
		92										
Senebiera, Poir., S. didyma, Pers., .				W	art t	ress.						707 0
S. didyma, Pers., .			*	1			•				-0	Banks
Lepedium, R. Br., .		4	4	1'c	pper	grass	5.					100011160
L. Menziesii, D. C.,	35	100					21			*		Fields
L. Californicum, Nutt.,	3	*	13	83	332	<b>(4)</b>		100		23		Fields
L. nitidum, Natt.												
L. oxycarpam, Torr and	Gray	7	538	8%	32	43		12	23		82	Oakland Hills
L. latipes, Hook.												
Capsella, Veut.,	84	8	-	Sho	pher	d's P	urse.					
C. Bursa-Pastoris, Moene									20		52	Fields
Thysanocarpus, Hook.												
Th. elegans, Fisch and M	ev.	20	0.000	133	60		14		20	7911		Meadows
Ph. radians, Benth.,		30	10.77	100	25	-						Meadows
Ph. oblongifolius, Nutt.				•					10			Diengows
Th. pulchellus, Fisch and	Ma	ere:										
Th. pusillus, Hook.,												Market 1
Parlame I		10.00	22	77				*	•			Hillsides
Raphanus, L.,	**		•	rac								
R. raphanistrum, L.,		4	12					•	•			Fields
Víola, L.			R	lolac	eae.	. (1	riolet .	Famil,	y.)			
				mi		1000						
V. canina, Rich., .	•		*	Blue	e Vic	iet.	×	*0	3		*	Moist Places
v. Nuttallii, Pursh.,	•0			ŧ1	1	9	*		0.5	*	40	Gravelly Hillsides
v. pedunculata, Gray and	L Ton	rr,		Yel	low '	Viole	ŧ.	10		30	83	Mission Hills
V. Nuttallii, Pursh., V. pedunculata, Gray and V. glabella, Nutt.,	10	•			60	0.0		**		*	90	Redwoods
	/	Canad	lensi	5 21		0.0	30		100	0	10	Redwoods
V. ocellata, Torr and Gr. V. sarmentosa, Dougl.,	1y ., (	Chillan	WALLEY.	- · ·								

LATIN NAMES.				I	SIGLE	зи N	AMES,					NATURAL HABITAT.
V. chrysantha, Hook,			93	100	194		*01		100	*1		Clay Soil
V. lobata, Benth.,	0.5		*		( <del>)</del>		•3	٠	38	٠	40	Woods
			CI	stac	eæ.	(Re	ck-Ro	se Fan	sily.)			
Telianthemum, Tour., .	42.5				oek r				0.00			
II. scoparium, Nutt.,	-04			\$2000 #40		4-1	-04	25.		**		Hillsides
								's Wor	t Fam	ily.)		
Hypericum, L.,						n's W						
H. anagalloides, Cham. S					*	66		100	*	433	- 1	Moist places.
H. Scouleri, Hook.,	•	10	13	38		63	100			6		Banks.
			Ca	ryop	hylla	acea	e. (	Pink I	amily	.)		
Silono, L.,	19			Ca	tehfl	у.						
S. Californica, Durand,		200		•60	- 134	400	98	31	800	50.000	18	Hillsides
S. Drummondii, Hook.								100				El El
S. Bolanderi, Gray.			98	•8	138	*:	89	200		68	12	Open woods.
S. Antirrhina, L												
S. Gallica, L.,	3	2	85		139	60	1.9	H.		63	3.5	Fields.
S. quinquevulnera, L.												
S. Douglasii, Hook.												
Arenaria, L.,	(3)	13	25	Sa	ndw	ort.						***************************************
A. Douglasii, Fenzl., .	37	$\mathcal{D}$	*3		•	$(\bullet))$	08	(6)	60	0.0	35	Sandy soil.
A. Californica, Brew.												
A. tenella, Nutt.				100.0								
						reed.		20704				Company (Company)
				Co	mme	on Ch	ickw	eed,	(5)	53	122	Fields.
H. erassifolia, Ebrh.												
H. littoralis. Tore and G	ray.							0000004				
Ceraslium, L.,	200		35	M	ouse-	ear (	hick	weed.				TO THE
C. oblongifolium, Torr,		25		1	. 4			27	35	58		Banks.
Sagina, L.,	33	25	•		earlw							Thomas a factors
S. procumbens, L.,	50	62	35	0.	. 1 0		3.60	87		20		Damp places.
Spergularia, Pers., .	10	10	25	23	nd S	purre	1					Tons places
S. rubra, Presl.,	*11	12.7			· urre		•	87	195	(6)	3.0	Low places.
Spergula, I,	*		36			y purre						Fields.
S. arvensis, L.,			٥	70	Thirt o	w W	y,	85	**	51		r icius,
P. ramosissima, D. C.	-	35	35	17	merc	, w 11	ort.					
en en emission et dichte (de Glob et ville 4 176 fet 45 175)			Port	ular	1800	20	(Pu	rslane	Fami?	v.)		
Calandrinia, H., B. and K						•	25					
C. Menziesii, Hook.,			58	40		1.0			-	*	100	Meadows.
Claytonia, I	e0		30	St	ring	Beau	ity.		- (2)	100		100 April 200 (200 April 200 April 2
C. perfoliata, Don., .	*	33		***		*	251	54	*	80	59	Fields and thickets.
C. exigua, Torr and Gra	у.											
C. Siberica, L.,		(3)	*	511	13	*	61		191	*0	99.	Wet places.
A. aquatica, Nutt., .		10.		60	90		39			2003		Swamps.
C. parvifolia, Mocino.												
C. Menziesii. (?)												
C. linearis, Dougl., .		9.		*6	28	*2	0.00		20	60	108	Wet places.
Montia, L.,												

Montia, L., M. fontana, L.,

. . . . . . In water.

LATIN NAMES.					E	NGLISH	NAN	IKS.					NATURAL HABITAT
Lewisia, Purab.													
L. rediviva, Parsh., . Spraguea, Torr.			(40)	2	41	372	N	¥E		12	¥	è	Rocky places.
i. umbellata, Torr., .			•	•	V			÷	200	42		27	Sandy soil.
				M	aiva	cese	. (M	alloro	Fami	ly-)			
Malva, L.,			**	-	Ma	llow.							
M. rotundifolia, L., . Súlalesa, Gray.		ž.	*	1.50	Co	mmor	i Mal	low,	Æ	302	*	*	Fields.
5. malvaeflora, Gray.,		e.	20	100	185	2.0	22	et.		2 <b>.</b>		*	Meadows.
S. diploscypha, Gray,			•	97.52		***		æ	±2	3.00	3.5	*	Grain fields.
8. vitæfolia, Gray, .			*3	350	17	10			rte.	12.00	28	*	Borders.
Maleastrum, Gray, .			*0	0.000	Fa	lse M	allow						
M. Marrubioides, .				*			105.0			-			Gravelly bottoms.
M. Manroanum, Gray,	10	ē	9			21					•		Hillsides.
Francatia, Torr. F. Californica, Torr,													Hillsides.
Lacatera, L.	50			5.0			•	0.5	18	30	(6.50)	64	-3.11101 COS
<i>Lacatera</i> , 1 L. assurgentiflora, Kel	logg		25		0.60			5		*			San Francisco.
- 14 100 100 P 400 11 C T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								-05	100				
						acca	e. (I	tax I	lamily	.)			
Limon, L.,					F	ax.							
L. congestum, Gray,								27					
L. Breweri, Gray, .								12		\$0			Diablo.
L. spergulinum, Gray,			÷					70	0.5				Hillsides.
L. perenne, L.,		•	•	٠	•			2.0	14			•	Waste places.
				Cer	ant	acea	e. ((	lerani	um I	lemily.	)		
Geranium, L., .	8		27	12	C	ranes	sill.						
G. Carolinanum, L.,				12	\$	12	100	20		22	2	20	Meadows.
G. cospitosum, (?) Jar	nes,			12				33	33.3	100		- 20	Sandy fields.
Fradmin L'Her., .			4	277	8	orkst	ill.						
E. cicutarium L'Her,					A	lfileri	R.	36	45	34		43	Meadows.
Lunnanthes, R. Br.													
L. rosea, Benth,	4	2		33		100				19		100	Moist meadows.
L. Douglasii, R. Br.,			27	10					- 1			40	Moist meadows.
Oxalis. L.,						Vood							20112 15
O. Oregana, Nutt.,			2	3		20					196	(4)	Redwoods,
O. stricta, L., .	4		20			ellow							Fields.
O. corniculats, L.,		4	¥	1	110	\$10	114	*	*	100	19	*	Fields,
					Ru	tace	ab.	Rue	Famil	y.)			
								M (500)		8/01			
Ptelia, L.					T	Iop T	ree,	1	40	27	44		Banks.
Ptelia, L. P. trifoliata, L.,	Ģ.	7		•	-								
	•	*		An.			0058	(Co	ishew .	Famil	y.)		
P. trifoliata, L.,		*	•	An	aca	rdia		, (Co	ishew .	Famil <sub>i</sub>	y.)		
		Grav		An	aca S		h.			Famil			Fields.